



Rocky Flats Environmental Technology Site
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CORRES. CONTROL
OUTGOING LTR NO.

November 30, 1995

95-RF-09109
95-RM-ER-189-KH

DOE ORDER # 4700.1
95RF09109

DIST.	LTR	ENC
Bengal, P.		
Benson, C. A.		
Buddy, M. S.	X	X
Evans, C. S.		
Findley, M.		
Guinn, G.		
Guinn, L.		
Hopkins, J.		
Jenkins, K.		
Jierree, C.		
Konwinski, G.		
Law, J. E.	X	X
Luker, R. S.		
McAnally, J. L.		
McHugh, M. F.		
Motyl, K. M.		
Parker, A. M.	X	X
Primrose, A. L.	X	X
Power, A.		
Schubbe, D. L.	X	X
Steffen, D. E.		
Tyson, A. M.		
Zeile, H.		
Roberts, R. S.	X	X
Thrombe, W.	X	X
Raudall, R.	X	X
Bidder, C.	X	X
Holstein, N.	X	X
Katz, W.	X	X
Heuck, Z.	X	X
Ledford, A.	X	X
Peterson-Wr. L.	X	X
Yolk, R.	X	X

Christine S. Dayton
Kaiser-Hill, L.L.C.
Rocky Flats Environmental Technology Site
P. O. Box 464, Bldg. T130C
Golden, CO 80402-0464

SUMMARY OF CHEMICALS OF CONCERN FOR OPERABLE UNITS 1 THROUGH 7 (KH00003NS1A) –
JEL-048-95

Per your request, attached is a table of the Chemicals of Concern identified for Operable Units 1 through 7.
If you have any questions concerning this list, please contact Annette Primrose at extension 4385.

John E. Law, P.E.
Remediation Manager
Sitewide Actions

RR:dql

Attachment:
As Stated

cc:
M. L. Hogg

JAN 1996
RECEIVED
RECORDS CENTER

ER REC CTR (2)	X	X
CORRES. CONTROL	X	X
RMRS CC	X	X
TRAFFIC		

CLASSIFICATION		
UCNI		
UNCLASSIFIED	X	X
CONFIDENTIAL		
SECRET		

AUTHORIZED CLASSIFIER
SIGNATURE

DOCUMENT CLASSIFICATION
REVIEW WAIVER PER

CLASSIFICATION OFFICE
DATE

IN REPLY TO RFP CC NO:

NA

ACTION ITEM STATUS

☐ OPEN ☒ CLOSED
☐ PARTIAL

LTR APPROVALS: *AW* 22.015.F

ORIG & TYPIST INITIALS:

RP *agl*

ADMIN RECCRD

BZ-A-000362

Summary of Chemicals of Concern for OUs 1 through 7

Chemicals of Concern	Surface Soil							Subsurface Soil							Groundwater						
	OU1	OU2	OU3	OU4	OU5	OU6	OU7	OU1	OU2	OU3	OU4	OU5	OU6	OU1	OU2	OU3 ⁽²⁾	OU4	OU5	OU6	OU7	
Metals/Indicator Parameters:																					
Aluminum																		X			
Antimony						X						X								X	
Arsenic							X		X									X			
Barium													X					X			
Beryllium				X								X						X			
Cadmium				X					X		X	X						X			
Chromium		X																			
Cobalt																					
Copper					X							X									
Fluoride																				X	
Lithium																					
Manganese																					
Mercury					X				X									X			
Molybdenum																					
Nickel											X	X									
Nitrate															X				X	X	
Selenium														X						X	
Silver					X	X					X										
Strontium																					
Vanadium						X											X				
Zinc						X															
Radionuclides:																					
Americium-241	X	X	X	X		X		X ⁽¹⁾	X	X	X		X		X		X	X			
Plutonium-239/240	X ⁽¹⁾	X	X	X		X		X ⁽¹⁾	X	X	X		X		X		X	X			
Radium-226							X				X							X	X		
Uranium-233/234	X ⁽¹⁾			X	X			X ⁽¹⁾	X	X	X	X	X				X	X			
Uranium-235					X				X			X					X	X			
Uranium-238	X ⁽¹⁾			X	X			X ⁽¹⁾	X	X	X	X	X				X	X		X	

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Chemicals of Concern	Surface Soil							Subsurface Soil							Groundwater						
	OU1	OU2	OU3	OU4	OU5	OU6	OU7	OU1	OU2	OU4	OU5	OU6	OU1	OU2	OU4 ⁽²⁾	OU5	OU6	OU7			
Organic Compounds:																					
1,1,1-Trichloroethane													X								
1,1-Dichloroethene													X	X							
1,2-Dichloroethene																					
Acenaphthene	X																				
Acetone																					
Aroclor-1254	X	X		X	X						X										
Aroclor-1260		X																			
Benzo(a)anthracene					X						X										
Benzo(a)pyrene	X				X						X	X									
Benzo(b)fluoranthene	X				X						X	X									
Benzo(k)fluoranthene	X																				
bis(2-Ethylhexyl)phthalate		X																			
Carbon Tetrachloride													X	X				X			
Chloroform														X		X					
Di-b-butylphthalate																					
Dibenzo(a,h)anthracene	X				X																
Fluoranthene	X				X				X												
Fluorene	X																				
Indeno(1,2,3-cd)pyrene					X																
Methylene Chloride														X			X				
Pyrene	X				X				X												
Tetrachloroethene														X			X				
Toluene									X												
Trichloroethene														X			X				

¹Based on hot spot removal data.

²Groundwater COCs have not been selected for OU4.

³Detected in pond water only.

⁴Includes dry sediments around ponds.

⁵Great Western Reservoir only.

Summary of Chemicals of Concern for OUs 1 through 7

Chemicals of Concern	Surface Water		Seep Water	Stream Sediment		Pond Sediment				Seep Sediment	Pond Liner
	OU5	OU6		OU5	OU6	OU3	OU5	OU6	OU7		
Metals/Indicator Parameters:											
Aluminum											
Antimony									X		
Arsenic										X	
Barium	X										
Beryllium											
Cadmium										X	X
Chromium											
Cobalt					X ⁽⁴⁾						
Copper				X							
Fluoride											
Lithium	X										
Manganese											
Mercury				X			X				
Molybdenum											
Nickel											
Nitrate											
Selenium											
Silver								X			
Strontium	X				X ⁽⁴⁾						
Vanadium					X ⁽⁴⁾			X			
Zinc				X	X ⁽⁴⁾		X			X	
Radionuclides:											
Americium-241	X			X	X ⁽⁴⁾		X	X			X
Plutonium-239/240				X	X ⁽⁴⁾	X ⁽⁵⁾	X	X			X
Radium-226											
Uranium-233/234	X						X			X	X
Uranium-235							X			X	
Uranium-238	X						X			X	X

Summary of Chemicals of Concern for OUs 1 through 7

Chemicals of Concern	Surface Water		Seep Water	Stream Sediment		Pond Sediment			Seep Sediment	Pond Liner
	OU5	OU6		OU5	OU6	OU3	OU5	OU6		
Organic Compounds:										
1,1,1-Trichloroethane										
1,1-Dichloroethene			X							
1,2-Dichloroethene		X ⁽³⁾	X							
Acenaphthene										
Acetone			X							
Aroclor-1254							X			
Aroclor-1260										
Benzo(a)anthracene					X ⁽⁴⁾					
Benzo(a)pyrene					X ⁽⁴⁾		X			
Benzo(b)fluoranthene					X ⁽⁴⁾		X			
Benzo(k)fluoranthene										
bis(2-Ethylhexyl)phthalate							X			
Carbon Tetrachloride										
Chloroform		X ⁽³⁾								
Di-b-butylphthalate		X ⁽³⁾								
Dibenzo(a,h)anthracene										
Fluoranthene										
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Indeno(1,2,3-cd)pyrene					X ⁽⁴⁾					
Methylene Chloride										
Pyrene										
Tetrachloroethene			X							
Toluene										
Trichloroethene		X ⁽³⁾	X							

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